Index to Volume VIII., Series II.

A.

Absorption Spectrum, The Effect of Temperature upon the, of a Synthetic Ruby, *K. S. Gibson*, 38.

Absorption, The Law of, of X-Rays at High Frequencies, *Albert W. Hull* and *Marion Rice*, 326.

Absorption Coefficients, The, of Soft X-Rays, *C. D. Miller*, 329.

Absorption, The Fluorescence and, of Certain Pleochroic Crystals of the Uranyl Salts, *Edward L. Nichols* and *H. L. Howes*, 364.

Adsorption, The Evaporation, Condensation and Reflection of Molecules and the Mechanism of, *Irving Langmuir*, 149.

Alpha Rays, On the Ionization of Gases by, *H. A. Bumstead*, 715.

Amalgams, Change of Resistance with Temperature of Various Sodium, *Ralph C. Rodgers*, 259.

B.

Bumstead, H. A., On the Ionization of Gases by Alpha Rays, 715.

Becknell, Guy C., On the Demagnetization of Iron and Steel Rods by Strain and Impact, 504.

Benade, J. M., The Nature of the Collisions of Electrons with Gas Molecules, 449.

Beta Rays, The Magnetic Spectra of the, of Radium De and of Radium and its Products, Determined by the Statistical Method, *Alois F. Kovarik* and *L. W. McKeehan*, 574.

Bidwell, C. C., Resistance and Thermoelectric Relations in Iron Oxide, 12.

Black Body, The, at the Melting Point of Platinum as a Fixed Point in Photometry, *Herbert E. Ives*, 250.

Black Body, Note on, Brightness Equation Based on Equivalent Wave-Lengths, 323.

Bohr's Theory, The Dispersion of Hydrogen and Helium on, *C. Davisson*, 20.

Borelius, G., On the Electrostatic Measurements of Electrode Potentials, 128.

Bridgman, P. W., Tolman's Principle of Similitude, 423.

Brown, F. C., The Frequent Bursting of Hot Water Pipes in Household Plumbing Systems, 500.

Buchner, G. J., Note on the Parson Electrometer, 248.

C.

Canal Rays, The Properties of Slow, *A. J. Dempster*, 651.

Capillary Tube Method, The Coefficient of Viscosity of Air by the, *Effie Markwell*, 479.

Cathode Fall, The Theory of the, of Potential, *H. A. Wilson*, 227.

Cathode Rays, An Experimental Verification of the Law of Variation of Mass with Velocity for, *Lloyd T. Jones*, 52.

Carbino Effect, The, in Various Conductors, Measured by the Electromagnetic Torque Produced, *Keith K. Smith*, 402.

Clark, Harry, A Test for X-Ray Refraction Made with Monochromatic Rays, 528.

Compton's Formula for the Temperature Variation of the Specific Heat of Solids, *F. Schwers*, 117, 753.

Compton, Karl T., The Mean Free Path of an Electron in a Gas and its Minimum Ionizing Potential, 386.

Application of the Electron Theory of Gaseous Dielectrics to the Calculation of Minimum Ionizing Potentials, 412.

The Nature of the Collisions of Electrons with Gas Molecules, 449.

Condensation, The Evaporation, and Reflection of Molecules and the Mechanism of Adsorption, *Irving Langmuir*, 149.

Conductors, Resistance and Reactance of Massed Rectangular, *A. Press*, 417.

Conductivity, The Electrical, of a Bunsen Flame for Small Distances between the Electrodes, *Norman Hurd Ricker*, 626.

Index to Volume VIII., Series II.

A.

Absorption Spectrum, The Effect of Temperature upon the, of a Synthetic Ruby, *K. S. Gibson*, 38.

Absorption, The Law of, of X-Rays at High Frequencies, *Albert W. Hull* and *Marion Rice*, 326.

Absorption Coefficients, The, of Soft X-Rays, *C. D. Miller*, 329.

Absorption, The Fluorescence and, of Certain Pleochroic Crystals of the Uranyl Salts, *Edward L. Nichols* and *H. L. Howes*, 364.

Adsorption, The Evaporation, Condensation and Reflection of Molecules and the Mechanism of, *Irving Langmuir*, 149.

Alpha Rays, On the Ionization of Gases by, *H. A. Bumstead*, 715.

Amalgams, Change of Resistance with Temperature of Various Sodium, *Ralph C. Rodgers*, 259.

B.

Bumstead, H. A., On the Ionization of Gases by Alpha Rays, 715.

Becknell, Guy C., On the Demagnetization of Iron and Steel Rods by Strain and Impact, 504.

Benade, J. M., The Nature of the Collisions of Electrons with Gas Molecules, 449.

Beta Rays, The Magnetic Spectra of the, of Radium De and of Radium and its Products, Determined by the Statistical Method, *Alois F. Kovarik* and *L. W. McKeehan*, 574.

Bidwell, C. C., Resistance and Thermoelectric Relations in Iron Oxide, 12.

Black Body, The, at the Melting Point of Platinum as a Fixed Point in Photometry, *Herbert E. Ives*, 250.

Black Body, Note on, Brightness Equation Based on Equivalent Wave-Lengths, 323.

Bohr's Theory, The Dispersion of Hydrogen and Helium on, *C. Davisson*, 20.

Borelius, G., On the Electrostatic Measurements of Electrode Potentials, 128.

Bridgman, P. W., Tolman's Principle of Similitude, 423.

Brown, F. C., The Frequent Bursting of Hot Water Pipes in Household Plumbing Systems, 500.

Buchner, G. J., Note on the Parson Electrometer, 248.

C.

Canal Rays, The Properties of Slow, *A. J. Dempster*, 651.

Capillary Tube Method, The Coefficient of Viscosity of Air by the, *Effie Markwell*, 479.

Cathode Fall, The Theory of the, of Potential, *H. A. Wilson*, 227.

Cathode Rays, An Experimental Verification of the Law of Variation of Mass with Velocity for, *Lloyd T. Jones*, 52.

Carbino Effect, The, in Various Conductors, Measured by the Electromagnetic Torque Produced, *Keith K. Smith*, 402.

Clark, Harry, A Test for X-Ray Refraction Made with Monochromatic Rays, 528.

Compton's Formula for the Temperature Variation of the Specific Heat of Solids, *F. Schwers*, 117, 753.

Compton, Karl T., The Mean Free Path of an Electron in a Gas and its Minimum Ionizing Potential, 386.

Application of the Electron Theory of Gaseous Dielectrics to the Calculation of Minimum Ionizing Potentials, 412.

The Nature of the Collisions of Electrons with Gas Molecules, 449.

Condensation, The Evaporation, and Reflection of Molecules and the Mechanism of Adsorption, *Irving Langmuir*, 149.

Conductors, Resistance and Reactance of Massed Rectangular, *A. Press*, 417.

Conductivity, The Electrical, of a Bunsen Flame for Small Distances between the Electrodes, *Norman Hurd Ricker*, 626.

Contact Electromotive Force, On the Influences Contributing to the Variation of, with Time, *Otto Stuhlmann, Jr.*, 294.
Contact Potential, Temperature Coefficient of, A Criticism, *Fernando Sanford*, 95.
Corona Discharge, On the Initial Condition of the, *Jakob Kunz*, 28.
Corona, Determination of the Laws Relating Ionization Pressure to the Current in the, of Constant Potentials, *Earle H. Warner*, 285.
Corona, Direct Current, from Different Surfaces and Metals, *Sylvan J. Crooker*, 344.
Crooker, Sylvan J., Direct Current Corona from Different Surfaces and Metals, 344.

D.

Davisson, C., The Dispersion of Hydrogen and Helium on Bohr's Theory, 20.
Demagnetization, On the, of Iron and Steel Rods by Strain and Impact, *Guy G. Becknell*, 504.
Dempster, A. J., The Properties of Slow Canal Rays, 651.
Diatomic, The Distribution of Angular Velocities Among Gas Molecules, *Edwin C. Kemble*, 689.
Dielectric Constant, The, of Aqueous Solutions, *Elmer A. Harrington*, 581.
Dieterich, E. O., The Effect of Temperature on the Light-Sensibility Curves of Different Types of Selenium Cells, 191.

E.

Echelette Grating, The, *A. Trowbridge*, 485.
Ehrenfest-Afanassjewa, T., On Mr. R. C. Tolman's "Principle of Similitude," 1.
Elastic Properties, Notes on the, of Phosphor-Bronze Wires, *Arnold J. Oehler*, 465.
Electrode Potentials, On the Electrostatic Measurements of, *G. Borelius*, 128.
Electron, The Mean Free Path of an, in a Gas and its Minimum Ionizing Potential, *Karl T. Compton*, 386.
Electrons, The Nature of the Collisions of, with Gas Molecules, *K. T. Compton* and *J. M. Benade*, 449.
Electron Theory, Application of the, of Gaseous Dielectrics to the Calculation of Minimum Ionizing Potentials, *Karl T. Compton*, 412.
Electromagnetic Torque, The Carbino Effect in Various Conductors, Measured by the, Produced, *Keith K. Smith*, 402.
Electromotive Force, The, Produced by the Acceleration of Metals, *Richard C. Tolman* and *T. Dale Stewart*, 97, 753.
Electrometer, Note on the Parson, *G. E. M. Jauncey* and *G. J. Buchner*, 248.
Electronic Charge, Some Properties of Mercury Droplets Important in, Measurements, *L. W. McKeehan*, 142.
Electrostatic Measurements, On the, of Electrode Potentials, *G. Borelius*, 128.
Energy, The Normal Photo-electric Effect of Lithium, Sodium and Potassium as a Function of Wave-length and Incident, *Wilmer H. Souder*, 310.
Errata, 753.
Evaporation, The, Condensation and Reflection of Molecules and the Mechanism of Adsorption, *Irving Langmuir*, 146.

F.

Flame, The Electrical Conductivity of a Bunsen, for Small Distances between the Electrodes, *Norman Hurd Ricker*, 626.
Fluorescence, The, and Absorption of Certain Pleochroic Crystals of the Uranyl Salts, *Edward L. Nichols* and *H. L. Howes*, 364.

G.

Gases, The Luminosity of the Positive Column in, at Low Pressures, *H. A. Wilson*, 278.
Gardner, Willard, The Photo-electric Current as a Function of the Angle of Emission and the Thickness of the Emitting Film, 66.
Gibson, K. S., The Effect of Temperature upon the Absorption Spectrum of a Synthetic Ruby, 38.
Gorton, W. S., Some Remarks on the Mica X-Ray Spectrometer of, *Manne Siegbahn*, 320.
Goucher, F. S., Ionization by Impact in Mercury Vapor and Other Gases. I. The Direct Measurement of the Ionizing Potentials, 561.
Grating, The Echelette, *A. Trowbridge*, 485.

H.

h, The value of, determined Photo-electrically from the Ordinary Metals, *W. H. Kadesch* and *A. E. Hennings*, 221.

Hall Effect, The, and Allied Phenomena in Rare Metals and Alloys, *Alpheus W. Smith*, 79.

Harmonics, On the Occurrence of, in the Infra-Red Absorption Spectra of Gases, *Edwin C. Kemble*, 701.

Harrington, Ertle Leslie, A Redetermination of the Absolute Value of the Coefficient of Viscosity of Air, 738.

Harrington, Elmer A., The Dielectric Constant of Aqueous Solutions, 581.

Helium, The Dispersion of Hydrogen and, on Bohr's Theory, *C. Davisson*, 20.

Hematite, The Magnetic Properties of, *T. Townsend Smith*, 721.

Hennings, A. E., The Relations of the Photo-Potentials Assumed by Different Metals when stimulated by Light of a Given Frequency, 209.

The Value of *h* determined Photo-electrically from the Ordinary Metals, 221.

Hilger Sector Photometer, On a Modification of the, for Measuring Ultra-violet Absorption and its Application in the Case of Certain Derivatives of Fluoran, *H. E. Howe*, 674.

Homogeneity, Note on the, of Physical Equations, *Richard C. Tolman*, 8.

Hot Water Pipes, The Frequent Bursting of, in Household Plumbing Systems, *F. C. Brown*, 500.

Howe, H. E., On a Modification of the Hilger Sector Photometer Method for Measuring Ultra-violet Absorption and its Application in the Case of Certain Derivatives of Fluoran, 674.

Howes, H. L., The Fluorescence and Absorption of Certain Pleochroic Crystals of the Uranyl Salts, 364.

Hull, Albert W., The Law of Absorption of X-Rays at High Frequencies, 326.

Hydrogen, The Dispersion of, and Helium, on Bohr's Theory, *C. Davisson*, 20.

I.

Incandescent Lamp, The Radiant Luminous Efficiency of the Carbon, and the Mechanical Equivalent of Light, *Herbert E. Ives* and *E. F. Kingsbury*, 254.

Index, 754.

Infra-Red Absorption Spectra, On the Occurrence of Harmonics in the, of Gases, *Edwin C. Kemble*, 701.

Ionization of Gases, On the, by Alpha Rays, *H. A. Bumstead*, 715.

Ionization by Impact in Mercury Vapor and Other Gases. I. The Direct Measurement of the Ionizing Potentials, *F. S. Goucher*, 561.

Ionizing Potential, The Mean Free Path of an Electron in a Gas and its Minimum, *Karl T. Compton*, 386.

Ionizing Potentials, Application of the Electron Theory of Gaseous Dielectrics to the Calculation of Minimum, 412.

Ionizing Potentials, The Direct Measurement of the, Ionization by Impact in Mercury Vapor and Other Gases, *I. E. S. Goucher*, 561.

Ions, On the Mobilities of Gas, in High Electric Fields, *Leonard B. Loeb*, 633.

Ionization Pressure, Determination of the Laws Relating, to the Current in the Corona of Constant Potentials, *Earle H. Warner*, 285.

Iron Oxide, Resistance and Thermo-electric Relations in, *C. C. Bidwell*, 12.

Ives, Herbert E., The Mechanical Equivalent of Light as Determined from the Brightness of the Black Body, 177.

The Black Body at the Melting Point of Platinum as a Fixed Point in Photometry, 250.

The Radiant Luminous Efficiency of the Carbon Incandescent Lamp at the Mechanical Equivalent of Light, 254.

Note on Black Body Brightness Equation Based on Equivalent Wave-Lengths, 323.

J.

Jauncey, G. E. M., Note on the Parson Electrometer, 248.

Jensen, J. C., A Comparison of Alternating and Direct Spark Potentials, 433.

Jones, Lloyd T., An Experimental Verification of the Law of Variation of Mass with Velocity for Cathode Rays, 52.

K.

Kadesch, W. H., The Relations of the Photo-Potentials Assumed by Different

Metals when Stimulated by Light of a Given Frequency, 209.
The Value of h determined Photo-electrically from the Ordinary Metals, 221.
Kemble, Edwin C., The Distribution of Angular Velocities Among Diatomic Gas Molecules, 689.
On the Occurrence of Harmonics in the Infra-Red Absorption Spectra of Gases, 701.
Kingsbury, E. F., The Mechanical Equivalent of Light as Determined from the Brightness of the Black Body, 177.
The Radiant Luminous Efficiency of the Carbon Incandescent Lamp and the Mechanical Equivalent of Light, 254.
Note on Black Body Brightness Equation Based on Equivalent Wave-Lengths, 323.
Klopsteg, Paul E., The Measurement of Time with a Moving Coil Galvanometer, 195.
Kovarik, Alois F., The Magnetic Spectra of the β-Rays of Radium De and of Radium and its Products, Determined by the Statistical Method, 574.
Kunz, Jakob, On the Initial Condition of the Corona Discharge, 28.

L.

Langmuir, Irving, A High Vacuum Mercury Vapor Pump of Extreme Speed, 48.
The Evaporation, Condensation and Reflection of Molecules and the Mechanism of Adsorption, 149.
Light, The Mechanical Equivalent of, as Determined from the Brightness of the Black Body. *Herbert E. Ives* and *E. F. Kingsbury*, 177.
Light, The Reflection Coefficients of Metals for the Polarized Components of, *R. B. Wilsey*, 391.
Light-Sensibility, The Effect of Temperature on the, Curves of Different Types of Selenium Cells, *E. O. Dieterich*, 191.
Lithium, The Normal Photo-electric Effect of, Sodium, and Potassium as a Function of Wave-Length and Incident Energy, *Wilmer H. Souder*, 310.
Loeb, Leonard B., On the Mobilities of Gas Ions in High Electric Fields, 633.
Luminosity, The Luminosity, of the Positive Column in Gases at Low Pressures, *H. A. Wilson*, 278.

M.

McDowell, Louise S., A Study of the Law of Response of the Silicon Detector, 133.
McKeehan, L. W., Some Properties of Mercury Droplets Important in Electronic Charge Measurements, 142.
The Magnetic Spectra of the β-Rays of Radium De and of Radium and its Products, Determined by the Statistical Method, 574.
Markwell, Effie, The Coefficient of Viscosity of Air by the Capillary Tube Method, 479.
Mechanical Equivalent, The, of Light as Determined from the Brightness of the Black Body, *Herbert E. Ives* and *E. F. Kingsbury*, 177.
Mechanical Equivalent, The Radiant Luminous Efficiency of the Carbon Incandescent Lamp and the, of Light, *Herbert E. Ives* and *E. F. Kingsbury*, 254.
Mercury Vapor Pump, A High Vacuum of Extreme Speed, *Irving Langmuir*, 48.
Moving Coil Galvanometer, The Measurement of Time with a, *Paul E. Klopsteg*, 195.
Mercury Droplets, Some Properties of, Important in Electronic Charge Measurements, *L. W. McKeehan*, 142.
Millikan, R. A., The Existence of a Sub-electron?, 595.
Moffitt, G. W., A Direct Reading Precision Refractometer with Uniformly Divided Scale, 663.
Molecules, The Nature of the Collisions of Electrons with Gas, *K. T. Compton* and *J. M. Benade*, 449.
Molybdenum, Thermionic Currents from, *E. R. Stoekle*, 534.
Miller, C. D., The Absorption Coefficients of Soft X-Rays, 329.

N.

New Books, 432, 579, 752.
Nichols, Edward L., The Fluorescence and Absorption of Certain Pleochroic Crystals of the Uranyl Salts, 364.

O.

Oehler, Arnold J., Notes on the Elastic Properties of Phosphor-Bronze Wires, 465.

P.

Page's Theory of Heat Radiation, Notes on, *David L. Webster*, 66.

Phosphor-Bronze Wires, Notes on the Elastic Properties of, *Arnold J. Oehler*, 465.

Photo-electric Current, The, as a Function of the Angle of Emission and the Thickness of the Emitting Film, *Willard Gardner*, 66.

Photo-electric Effect, The Influence of Occluded Gases on the, *Robert James Piersol*, 238.

Photo-electric Effect, The Normal, of Lithium, Sodium and Potassium as a Function of Wave-Length and Incident Energy, *Wilmer H. Souder*, 310.

Photo-Potentials, The Relations of the, Assumed by Different Metals when Stimulated by Light of a Given Frequency, *A. E. Hennings* and *W. H. Kadesch*, 209.

Photometer Method, On a Modification of the Hilger Sector, for Measuring Ultra-violet Absorption and its Application in the Case of Certain Derivatives of Fluoran, *H. E. Howe*, 674.

Photometry, The Black Body at the Melting Point of Platinum as a Fixed Point in, *Herbert E. Ives*, 250.

Physical Equations, Note on the Homogeneity of, *Richard C. Tolman*, 8.

Piersol, Robert James, The Influence of Occluded Gases on the Photo-electric Effect, 238.

Platinum, The Black Body at the Melting Point of, as a Fixed Point in Phtoometry, *Herbert E. Ives*, 250.

Pleochroic Crystals, The Fluorescence and Absorption of certain, of the Uranyl Salts, *Edward L. Nichols* and *H. L. Howes*, 364.

Potassium, The Normal Photo-electric Effect of Lithium, Sodium, as a Function of Wave-Length and Incident Energy, *Wilmer H. Souder*, 310.

Press, A., Resistance and Reactance of Massed Rectangular Conductors, 417.

R.

Radiation, Notes on Page's Theory of Heat, *David L. Webster*, 66.

Radium De, The Magnetic Spectra of the β-Rays of, and of Radium and its Products, Determined by the Statistical Method, *Alois F. Kovarik* and *L. W. McKeehan*, 574.

Reactance, Resistance and, of Massed Rectangular Conductors, *A. Press*, 417.

Reflection, The Evaporation, Condensation and, of Molecules and the Mechanism of Adsorption, *Irving Langmuir*, 149.

Reflection Coefficients, The, of Metals for the Polarized Components of Light, *R. B. Wilsey*, 391.

Refractometer, A Direct Reading Precision, with Uniformly Divided Scale, *G. W. Moffitt*, 63.

Resistance and Thermo-electric Relations in Iron Oxide, *C. C. Bidwell*, 12.

Resistance, Change of, with Temperature of Various Sodium Amalgams, *Ralph C. Rodgers*, 259.

Resistance and Reactance of Massed Rectangular Conductors, *A. Press*, 417.

Rice, Marion, The Law of Absorption of X-Rays at High Frequencies, 326.

Ricker, Norman Hurd, The Electrical Conductivity of a Bunsen Flame for Small Distances between the Electrodes, 626.

Rodgers, Ralph C., Change of Resistance with Temperature of Various Sodium Amalgams, 259.

Ruby, The Effect of Temperature upon the Absorption Spectrum of a Synthetic, *K. S. Gibson*, 38.

S.

Sanford, Fernando, The Specific Inductive Capacity of Certain Metals, 89.

Temperature Coefficient of Contact Potential, A Criticism, 95.

Schwers, F., Compton's Formula for the Temperature Variation of the Specific Heat of Solids, 117, 753.

Seigbahn, Manne, Some Remarks on the Mica X-Ray Spectrometer of, *W. S. Gorton*, 320.

Selenium Cells, The Effect of Temperature on the Light-Sensibility Curves of Different Types of, *E. O. Dieterich*, 191.

Shackelford, B. E., Temperature and Blackening Effects in Helical Tungsten Filaments, 470.

Silicon Detector, A Study of the Law of Response of the, *Louise S. McDowell* and *Frances G. Wick*, 133.

Similitude, On Mr. R. C. Tolman's Principle of, *T. Ehrenfest-Afanassjewa*, 1.

Similitude, Tolman's Principle of, *P. W. Bridgman*, 423.

Smith, Alpheus W. The Hall Effect and allied Phenomena in Rare Metals, and Alloys, 79.

Smith, Keith K., The Carbino Effect in Various Conductors, Measured by the Electromagnetic Torque Produced, 402.

Smith, T. Townsend, The Magnetic Properties of Hematite, 721.

Sodium, The Normal Photo-electric Effect of Lithium, and Potassium as a Function of Wave-Length and Incident Energy, *Wilmer H. Souder*, 310.

Souder, Wilmer H., The Normal Photo-electric Effect of Lithium, Sodium and Potassium as a Function of Wave-Length and Incident Energy, 294.

Spark Potentials, A Comparison of Alternating and Direct, *J. C. Jensen*, 433.

Specific Heat, Compton's Formula for the Temperature of the, of Solids, *F. Schwers*, 117.

Specific Inductive Capacity of Certain Metals, *Fernando Sanford*, 89.

Stewart, T. Dale, The Electromotive Force Produced by the Acceleration of Metals, *Richard C. Tolman* and *T. Dale Stewart*, 97, 753.

Stoekle, E. R., Thermionic Currents from Molybdenum, 534.

Stuhlmann, Jr., Otto, On the Influences Contributing to the Variation of Contact Electromotive Force with Time, 294.

Subelectron, The Existence of a, *R. A. Millikan*, 595.

T.

Taylor, E. G., Phenomena Attending the Passage of X-Rays through Narrow Apertures, 207.

Temperature Coefficient of Contact Potential, A Criticism, *Fernando Sanford*, 95.

Thermo-electric Relations, Resistance and, in Iron Oxide, *C. C. Bidwell*, 12.

Thermionic Currents from Molybdenum, *E. R. Stoekle*, 534.

Time, The Measurement of, with a Moving Coil Galvanometer, *Paul E. Klopsteg*, 195.

Tolman's Principle of Similitude, *T. Ehrenfest-Afanassjewa*, 1.

Tolman, Richard C., Note on the Homogeneity of Physical Equations, 8.

The Electromotive Force Produced by the Acceleration of Metals, 97, 753.

Tolman's Principle of Similitude, *P. W. Bridgman*, 423.

Trowbridge, A., The Echelette Grating, 485.

Tungsten Filaments, Temperature and Blackening Effects in Helical, *B. E. Shackelford*, 470.

U.

Uranyl Salts, The Fluorescence and Absorption of Certain Pleochroic Crystals of the, *Edward L. Nichols* and *H. L. Howes*, 364.

V.

Variation of Mass, An Experimental Verification of the Law, with Velocity for Cathode Rays, *Lloyd T. Jones*, 52.

Viscosity, The Coefficient of, of Air by the Capillary Tube Method, 479.

Viscosity, A Redetermination of the Absolute Value of the Coefficient of, of Air, *Ertle Leslie Harrington*, 238.

W.

Warner, Earle H., Determination of the Laws Relating Ionization Pressure to the Current in the Corona of Constant Potentials, 285.

Wave-Length, The Normal Photo-electric Effect of Lithium, Sodium, Potassium, as a Function of, and Incident Energy, *Wilmer H. Souder*, 310.

Webster, David L., Notes on Page's Theory of Heat Radiation, 66.

A Test for X-Ray Refraction Made with Monochromatic Rays, 528.

Wick, Frances G., A Study of the Law of Response of the Silicon Detector, 133.

Wilsey, R. B., The Reflection Coefficients of Metals for the Polarized Components of Light, 391.

Wilson, H. A., The Theory of the Cathode Fall of Potential, 227.

Wilson, H. A., The Luminosity of the Positive Column in Gases at Low Pressures, 278.

X.

X-Rays, The Absorption Coefficients of Soft, *C. D. Miller*, 329.

X-Rays, The Law of Absorption of, at High Frequencies, *Albert W. Hull* and *Marion Rice*, 326.

X-Rays, Phenomena Attending the Passage of, through Narrow Apertures, *E. G. Taylor*, 207.

X-Ray Refraction, A Test for, Made with Monochromatic Rays, *Harry Clark*, 528.

X-Ray Spectrometer, Some Remarks on the Mica, of W. S. Gorton, *Manne Seigbahn*, 320.